PATENT
Customer No. 22,852
Attorney Docket No. 06502.0302-00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)
	)
Paul J. HINKER	) Group Art Unit: 2122
	)
Application No.: 09/686,628	) Examiner: Gross, Kenneth A.
	)
Filed: October 12, 2000	)
	)
For: AUTOMATIC CONVERSION OF	)
SOURCE CODE FROM 32-BIT TO	)
64-BIT	)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(c)

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(c), Applicant brings to the attention of the

Examiner the documents listed on the attached PTO 1449. This Information Disclosure

Statement (IDS) supplements IDSs filed on January 20, 2004, October 15, 2003,

August 5, 2003, April 2, 2003, September 25, 2002, July 3, 2002, May 29, 2002, March

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provisions of 37 C.F.R. § 1.97(c), this Information Disclosure Statement is accompanied

by a fee of $180.00 as specified by Section 1.17(p).

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GARRETT &
DUNNER LLP

1300 I Street, NW
Washington, DC 20005
202.408.4000
Fax 202.408.4400
www.finnegan.com

Application No. 09/686,628
Attorney Docket No. 06502.0302-00

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Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.

Dated: January 27, 2004

By: _____
Frank A. Italiano
Reg. No. 53,056

OMB No. 0651-0011

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Atty. Docket No.: 06502.0302-00	Application No.: 686,628/09
Applicant:	
Filing Date: October 12, 2000	Group 2122

U.S. PATENT DOCUMENTS

Examiner Initial*		Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate
		5,574,922	11/12/1996	James			
		6,052,763	4/18/2000	Maruyama			
		6,088,771	7/11/2000	Steely, Jr. et al.			
		6,353,869 B1	3/5/2002	Ofer et al.			
		6,430,657 B1	8/6/2002	Mittal et al.			
		6,502,136 B1	12/31/2002	Higuchi et al.			
		6,629,214 B1	9/30/2003	Arimilli et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initial*		Document Number	Date	Country	Class	Sub Class	Translation Yes or No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner	Date Considered:

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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JAB IPM

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PLEASE STAMP TO ACKNOWLEDGE RECEIPT OF THE FOLLOWING:

In Re Application of: Paul J. HINKER

Application No.: 09/686,628   Group Art Unit: 2122

Filed: October 12, 2000   Examiner: K. Gross

For: AUTOMATIC CONVERSION OF SOURCE CODE FROM 32-BIT TO 64-BIT

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1.   .   Information Disclosure Statement under 37 C.F.R. § 1.97(c)
2.   Form PTO 1449 w/ copy of five (5) documents
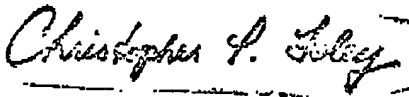3.   Check: $180.00

Dated January 20, 2004

Docket No.: 6502.0302

JAB/FAI:J. Walker - Mail Drop 878

(Due Date: N/A)

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Application No. 09/686,628
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Dated: January 20, 2004   By:_____
                                      Frank A. Italiano
                                      Reg. No. 53,056

FINNEGAN
HENDERSON
FARABOW
GARRETT &
DUNNER LLP

1300 I Street, NW
Washington, DC 20005
202.408.4000
Fax 202.408.4400
www.finnegan.com

INFORMATION DISCLOSURE CITATION

OMB No. 0651-0011

Atty. Docket No. 06502.0302-00	Appln. No. 686,628/09
Applicant Paul J. HINKER	
Filing Date October 12, 2000	Group: 2122

U.S. PATENT DOCUMENTS

Examiner Initial*		Document Number	Issue Date	Name	Class	Sub Class	Filing Date If Appropriate
		5,274,821	12/28/1993	Rouquie			
		5,640,550	06/17/1997	Coker			
		6,647,546 B1	11/11/2003	Hinker et al.			

FOREIGN PATENT DOCUMENTS

		Document Number	Publication Date	Country	Class	Sub Class	Translation Yes or No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Buckley, A. G., "Conversion to Fortran 90: A Case Study," ACM, 1994, pp. 308-353
	Purtilo, James M. et al., "Module Reuse by Interface Adaptation," Software – Practice and Experience, 1991, pp. 539-556

Examiner	Date Considered

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO 1449   Patent and Trademark Office - U.S. Department of Commerce

Conversion to Fortran 90: A Case Study

A. G. BUCKLEY
Royal Roads Military College

The features of the new standard language Fortran 90 are introduced and discussed. In order to focus the discussion, the particular context is the conversion of an existing published *ACM Transactions on Mathematical Software* algorithm from Fortran 77 to the new standard. Emphasis is on the new features of the language, including the array facilities, the use of modules, the applicability of user-defined (-derived) data types, the reduction in machine dependence of numeric codes, and the dynamic allocation of storage. The intent is that writers of software as well as those who use Fortran in scientific and engineering work will find this a helpful introduction to the new and powerful features of Fortran 90.

Categories and Subject Descriptors: D.3.3 [Programming Languages]: Language Constructs and Features—*Fortran 90*; G.4 [Mathematics of Computing]: Mathematical Software

General Terms: Algorithms, Languages, Standardization

Additional Key Words and Phrases: Conversion, Fortran 90, new features, overview

1. INTRODUCTION

As many readers will be aware, Fortran 90 is now upon us. The purpose of this article is to demonstrate some of the very significant gains that may be achieved through its use by examining the conversion of Algorithm 630 (see Buckley and LeNir [1985]) to Fortran 90. The resulting algorithm appears in the companion paper [Buckley 1993]. For convenience, these two are referred to as Algorithm 630 and Algorithm 734. Both solve a optimization problem that is described in Section 2.

A number of features of the new language are introduced and illustrated by examples from the converted program. Although one objective is to study the conversion of this particular algorithm, Fortran 90 is discussed in general terms as well, where it is thought appropriate to introduce readers to useful features of the language.

Module Reuse by Interface Adaptation

JAMES M. PURTILO AND JOANNE M. ATLEE
Computer Science Department, University of Maryland, College Park, Maryland 20742,
U.S.A.

SUMMARY

This paper describes a language called Nimble that allows designers to declare how the actual parameters in a procedure call are to be transformed at run time. Normally, programmers must edit an application's source in order to adapt it for reuse in some new context where the interfaces fail to match exactly (e.g. the parameters may appear in a different order, data types may not exactly match, and some data may need to be either initialized or masked out when the reusable module is integrated within a new application.) But Nimble allows programmers to adapt the interfaces of existing software without having to operate on the source manually. As a result, existing software may be easily reused in a broader range of applications, and software libraries do not need to store many variants of a component that differ only in how the interfaces are used. Nimble has been implemented on a variety of Unix hosts, and is part of a broader reuse project at the University of Maryland. Our current system is suitable for use either in conjunction with existing module interconnection languages, or stand-alone with C, Pascal and Ada source programs.

KEY WORDS   Module interconnection language   Software reuse

INTRODUCTION

The ability to reuse components is an economic necessity within software development projects, and is critical within prototyping efforts. Systems to help identify reusable components are increasingly able to suggest application modules with the specified functionality.[1] However, often such modules must be adapted in some manner before they can be used. For example, parameters may appear in a different order, data types may not exactly match, and some data may need to be either initialized or masked out when the reusable module is integrated within a new application. As the amount of adaptation increases, the economic benefit of reusing that component is decreased.

In order to reduce the cost of adapting software for reuse, we turn to automatic techniques. Typically, the emphasis has been upon transformation of abstract specifications into a valid implementation, where tailoring of interfaces is performed during generation of the source programs, such as shown in References 2 and 3. A more recent development is a language for transforming control structures of an Ada-like language;[4] in this way programmers can easily adapt algorithm implementations for application to elaborate data sets, and tailoring of interfaces is again performed during the source to source transformation.

JAB/FAI

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Application No.: 09/686,628   Group Art Unit: 2122

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For: AUTOMATIC CONVERSION OF SOURCE CODE FROM 32-BIT TO 64-BIT

1. Information Disclosure Statement under 37 C.F.R. § 1.97(c)
2. Form PTO 1449 w/ copy of one (1) document
3. Check: $180.00

Dated October 15, 2003

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		5,535,393	7/9/1996	Reeve et al.			

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Application No.: 09/686,628   Group Art Unit: 2122

Filed: October 12, 2000   Examiner: Kenneth A. Gross

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1.   Amendment

Dated September 22, 2003

Docket No.: 6502.0302

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